

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/749,961	12/31/2003	Frank Jansen	M03A209	8578
20411	7590 11/14/2006		EXAM	INER .
	GROUP, INC.		JEFFERSON, QUOVAUNDA	
575 MOUNTAIN AVENUE MURRAY HILL, NJ 07974-2064			ART UNIT	PAPER NUMBER
			2823	
			DATE MAILED: 11/14/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

## Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/749,961	JANSEN, FRANK	
Examiner	Art Unit	
Quovaunda Jefferson	2823	

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --THE REPLY FILED 24 Octoberr 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. 1. The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: The period for reply expires \_\_\_\_\_months from the mailing date of the final rejection. b) 🔀 The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f). Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL \_. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of 2. The Notice of Appeal was filed on \_\_\_\_\_ filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a). **AMENDMENTS** 3. The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) They raise new issues that would require further consideration and/or search (see NOTE below); (b) They raise the issue of new matter (see NOTE below); (c) They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or (d) They present additional claims without canceling a corresponding number of finally rejected claims. NOTE: \_\_\_\_\_. (See 37 CFR 1.116 and 41.33(a)). 4. The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324). 5. Applicant's reply has overcome the following rejection(s): \_ 6. Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s). 7. X For purposes of appeal, the proposed amendment(s): a) uill not be entered, or b) X will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended. The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) objected to: Claim(s) rejected: 1-25 Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE 8. The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e). 9. The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1). 10. The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached. REQUEST FOR RECONSIDERATION/OTHER 11. 

The request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet. 12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). 13. Other: . SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2800** 

Continuation of 11, does NOT place the application in condition for allowance because:

Applicant's arguments filed have been fully considered but they are not persuasive. Applicant argues that there is no expressed or implied teachings that would lead one skilled in the art to combine the references to combine various pieces of Vaartstra, Campbell, and Aitchison and that Examiner has provided very broad reasons for the combination of such that have very little to do with the actual teachings of the prior art or of the present invention.

In response to applicant's argument that there is no expressed or implied teaching that would one skilled in the art to combine the references of Vaartstra, Campbell, and Aitchison, Examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

In this case of use of separate delivery lines, as stated by Campbell is in column 1, lines 53-65, the use of independent and dedicated pumping lines and corresponding valves are needed to minimize the reaction of gases in the pump lines and minimize clogging of the fore-lines.

In the case of the use of the trap, it is generally well-known in the art that a trap is used at the end of a reaction chamber in order to prevent potentially harmful contaminants from the exiting process gas from entering into a back pump or any other vessel used in this production.

Applicant further argues that all of the prior art of record fails to teach a trap having a residence time at least equal to one deposition cycle.

In response to this argument, Examiner points out that since these are apparatus claims rather than process claims, as stated in MPEP 2114, "A claim containing a "recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art apparatus teaches all the structural limitations of the claim. Ex parte Masham, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987).

As such, reaction chamber deposition cycle time and trap residence time, which is defined in the Applicant's specification on page 9, lines 21-22 by process variables P (pressure) and Q (flow rate), are process type limitations that are at most recitations of intended use. In addition, the exhaust trap of Aitchison has an inherent capability of being used according to the intended use implied by the claim language.

Examiner also points out that starting in column 11, line 60 to column 12, line 10, Vaartstra teaches in that an ALD pulse is as short as 1/10 of a second, therefore making the ALD deposition cycle can be less than one second, where as a conventional exhaust trap would clearly be expected to be capable of operating with a resident time equal to or more than a fraction of a second.

Therefore, the rejection of claims 1-25 in view of all the prior cited art is deemed proper.